necessarily provide a discernible contrast to identify it as fill. Specific regions with anomalous strong EM conductivity responses include:

- Northeast Sector, along E. 55th Street –anomalous strong EM conductivity responses, Former bank and gas-service station, (20-ft E 50-ft W/ 210-360-ft N);
- Northeast Sector, along E. Woodland Avenue, between E. 53rd and E.55th Streets, elevated EM conductivity responses, vicinity of former gas-service station and print shop (0 170-ft W/ 300 400-ft N);
- Southeast sector, along E. 55th Street, scattered irregular elevated EM conductivity responses, former gas-service station (20-ft E 150-ft W/0 110-ft N);
- West-central Sector, between E. 51st and E. 53rd Street, north of gravel driveway, anomalous strong, rectangular-shaped EM conductivity anomaly, vicinity of former print shop and metal scrap yard (285-350-ft W/ 230-280-ft N);
- Northwest Parcel (west of E. 51st Street), Anomalous strong EM conductivity responses on east and west sides of building, including extremely strong EM anomaly (425-450-ft W/ 375-400-ft N), vicinities of former print-shop, paint storage and gas-service station.

The strong EM conductivity responses in these locations are believed to indicate zones of highly conductive fill. Examples of possible high conductivity fill include rubble, general refuse and demolition debris with miscellaneous metallic content, and/or industrial fill such as slag, foundry sand, cinders, fill with disseminated metal particles, and/or materials with elevated salt content. It is believed that the most likely cause of specific zones of elevated to anomalous EM conductivity levels are former excavations (e.g. UST) or former basements. The strength of the EM conductivity responses may be indicative of one or more of the following conditions: (1) the electrical properties of the fill, (2) depth of fill and/or the (3) presence of elevated water, metal or salt content. Further invasive exploration in these zones may be desired to document that actual subsurface fill conditions. The extremely strong EM conductivity response observed in the east sector of the northwest parcel (425-450-ft W/ 375-400-ft N) is believed to be caused by a reinforced concrete structure such as a more deeply buried concrete slab, ramp, basement floor or subgrade vault. The strong EM conductivity levels observed over E. 53rd Street may be caused in part by the pavers, conductive subgrade fill, and/or the presence of various buried utility piping below E. 53rd Street.

Localized, anomalous strong EM in-phase responses (metal or strongly conductive material) are apparent throughout the site, although most of these anomalies are not as extensive compared to the strong EM conductivity response regions. Possible explanations for the large EM in-phase anomalies include underground storage tanks and reinforced subgrade structures, while the smaller, more isolated in-phase anomalies could represent small tanks, barrels, equipment, clusters of pipes, pieces of metal, demolition debris and/or reinforced concrete fragments. Significant anomalous strong EM in-phase response locations include (Figure 2):

- Southeast Sector (80-90-ft W/ 90-120-ft N) Anomalous strong In-phase anomaly, possible UST, vicinity of former gas-service station.
- East/Northeast Sector, along W. 55th Street (20-ft E 40-ft W/ 240-315-ft N), possible scattered metallic debris;
- Southeast Sector (5-ft E/12-ft N) Possible small tank or metal debris;
- Central Area, East side of W. 53rd Street (160-ft W/ 285-ft N), Possible small tank, metal barrel or debris;
- Southwest Sector (410-ft W/ 55-ft N), possible metal debris;
- West-central Sector
 - o 265-ft W/ 240-ft N*
 - o 295-ft W/ 300-ft N*
 - o 250-ft W/ 305-ft N
 - o 275-ft W/ 345-ft N
 - o 315-ft W/355-ft N*
 - o 342-ft W/ 355-ft N
 - o 355-ft W/ 285-ft N
 - o Misc. smaller, weaker in-phase responses in vicinity of above anomalies.

The above listed anomaly locations could represent targets such as small tanks, barrels, equipment, metal debris, reinforced concrete fragments, etc. The starred (*) anomalies are considered the most significant and most likely to correspond to small tanks or similar sized metal structures/debris.

- Northwest Parcels, west of E 51st Street
 - o 425-450-ft W/ 375-400-ft N − Possible reinforced concrete structure (e.g., pad, ramp, basement floor, subgrade vault)
 - o 445-475-ft W/ 350-370-ft N Possible tank, large pipe, reinforced concrete vault or other metallic structure note manhole cover over anomaly location.

Further invasive exploration, such as soil coring or test pit excavations, would be required to document the actual cause of the anomalous EM in-phase responses at these locations. The in-phase anomaly that appears most likely to correspond to a UST is located in the southeast sector of the site (Figure 2: 80-90-ft W/ 90-120-ft N), in the vicinity of a former Shell gasservice station.

The Ground-penetrating Radar (GPR) records show broad regions of deeper, more chaotic GPR reflections throughout the site. The most prominent and laterally extensive chaotic GPR responses occur in the northern half of the site and along the E. 55th Street frontage. In general, it is believed that the chaotic GPR reflections indicate regions of fill spread across the site. Regions with shallow to moderate depth chaotic GPR reflections are believed to indicate a veneer of rubble demolition debris fill that may include bricks, concrete fragments, mortar and

other building materials. Specific zones with deeper, highly chaotic GPR reflections may indicate former UST excavations or backfill basements. The types of materials within the excavations may include demolition debris, sand and gravel, and locally available industrial fill, such as slag, cinders and foundry sand. Figures 3a and 4a illustrate specific zones of the deeper, chaotic reflection response, while Figures 3b, 3c, 4b and 4c show the typical shallow to moderate depth chaotic GPR reflection response that was observed over much of the northern half of the site.

GPR scans over specific EM anomaly locations (e.g. Figure 3c) do not appear to show response similar to the anticipated response over tanks; However, it is not uncommon for GPR to show inconclusive results over more deeply buried targets covered by highly conductive industrial or demolition debris fill. A strong reflective surface was observed in the east-central sector of the site, close to the E. 55th Street sidewalk (Figure 3b). This reflective interface may represent a former floor slab or base of a former excavation.

The overall GPR response observed over the accessible areas that could be scanned using GPR ranged from low to strong signal attenuation effects. The strong signal attenuation in some areas is believed to be caused by higher conductivity subsurface materials such as wet clay, silt and/or other high conductivity industrial fill. The depth of exploration probably did not exceed 3-ft to 4-ft in areas with these types of soil and fill materials; The exploration depth could be less in areas where higher amounts of wet clay, slag, foundry sand, elevated salt or other complicating near-surface conditions or obstructions are present. It is not uncommon for GPR signal penetration to be poor over targets buried below several feet of highly conductive backfill such as wet silty clay or slag. GPR signal penetration is known to be poor within the clay and weathered shale bedrock that can be encountered in this region of Ohio. Lower signal attenuation/greater depth penetration areas may indicate the presence of lower conductivity demolition debris fill or sand and gravel.

Limitations

The use of geophysical exploration methods, such as those described herein, should not be considered a substitute for invasive subsurface exploration such as drilling, digging or excavation. The EM and GPR data are interpreted. No warranty or statement of fact regarding actual subsurface conditions is contained herein. If questions or uncertainties exist regarding the interpreted presence or absence of subsurface conditions based on the geophysical data obtained from this site, it is recommended that supplemental subsurface explorations, such as drilling or test-pit explorations, be conducted if possible to further characterize and document actual subsurface conditions.

Grumman Exploration, Inc. has appreciated this opportunity to be of service again to Mannik & Smith Group, Inc. If you have any questions or comments regarding the information contained in this report, please feel free to contact us.

Sincerely,

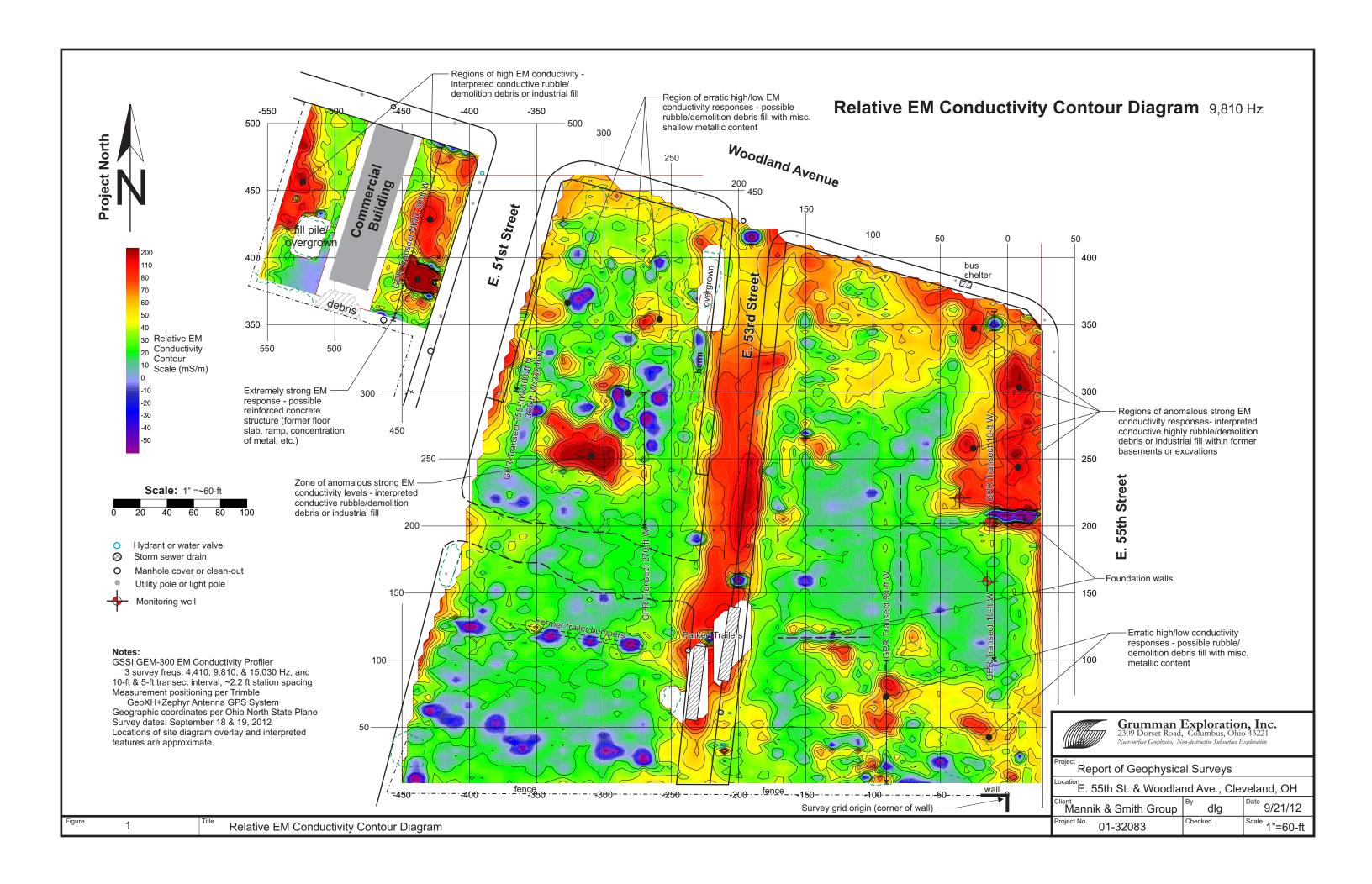
Grumman Exploration, Inc.

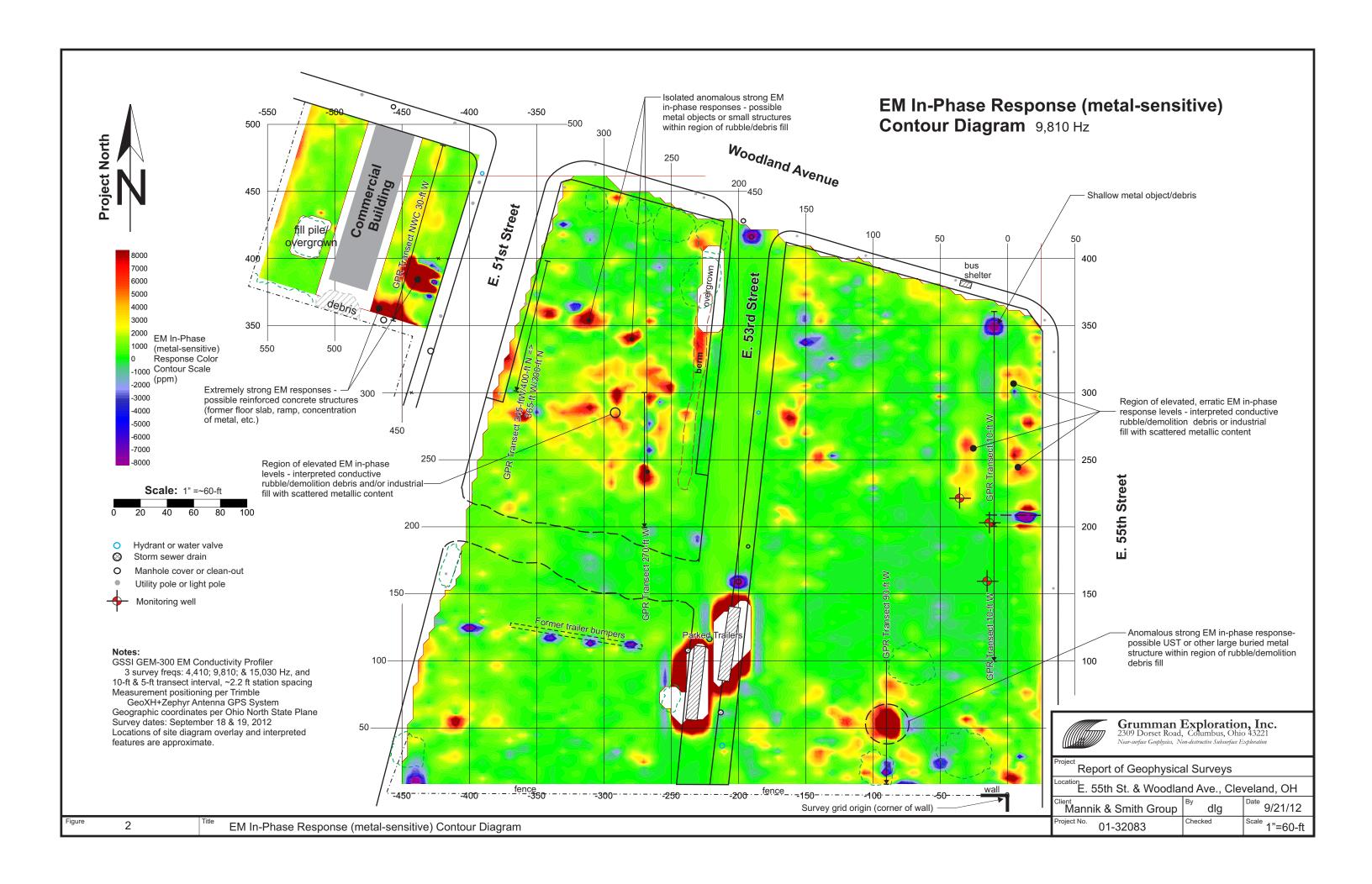
David L. Grumman, Jr. President/Geophysicist

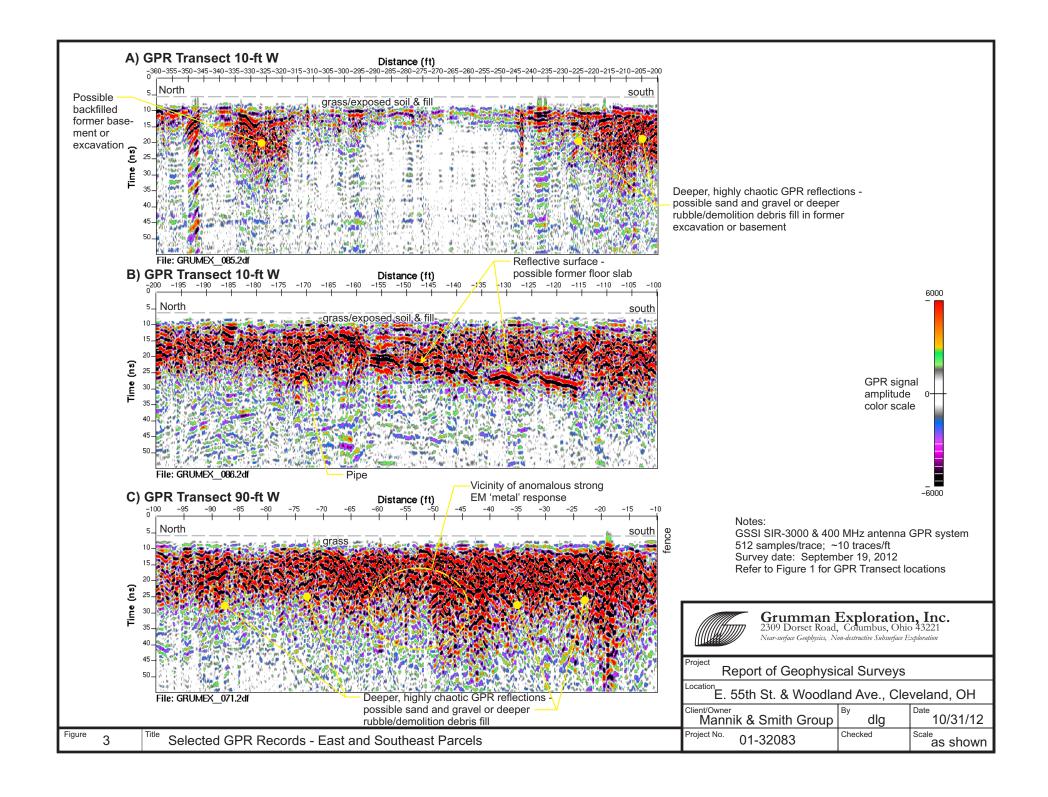
Attachments

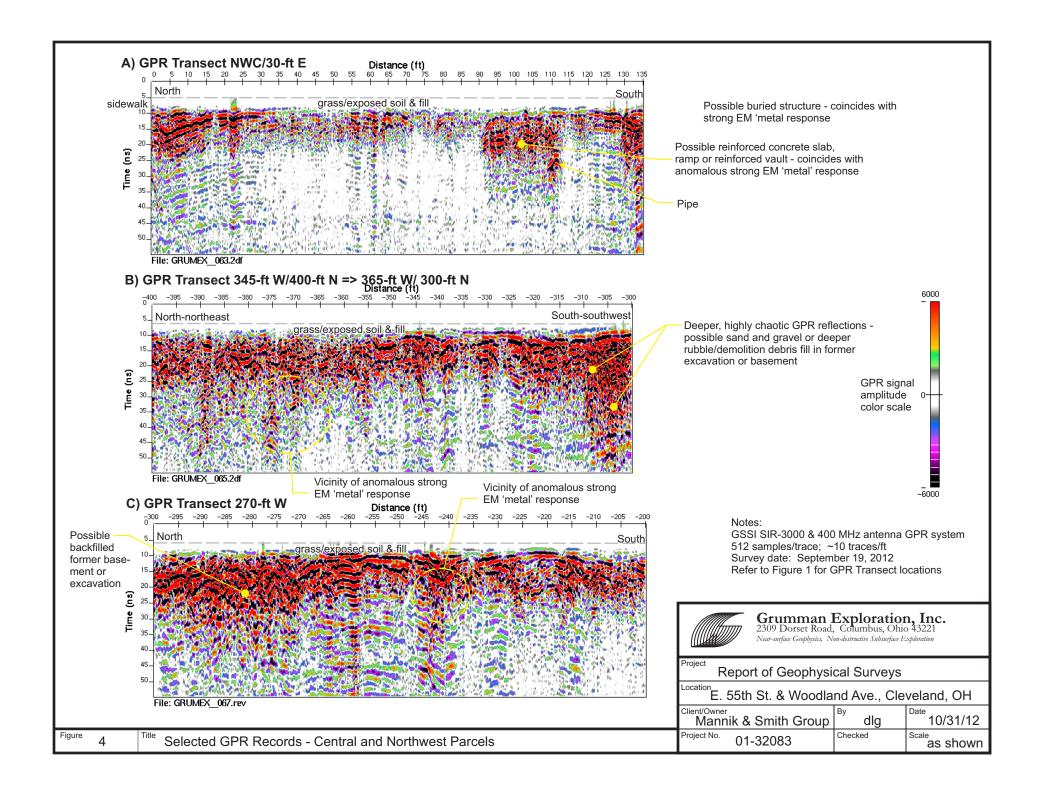
Figures 1-4

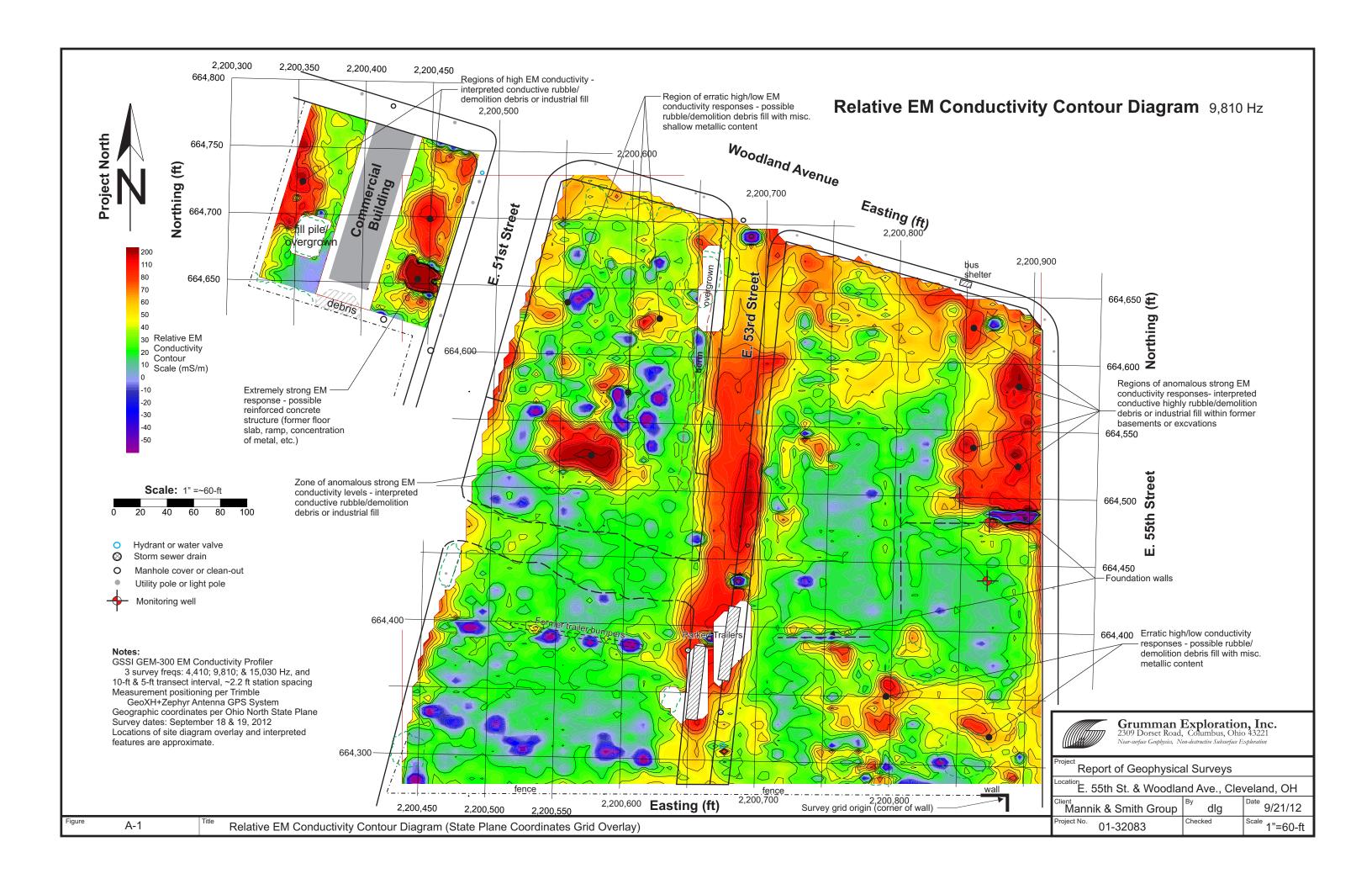
Overview and Limitations of EM Conductivity Profiling

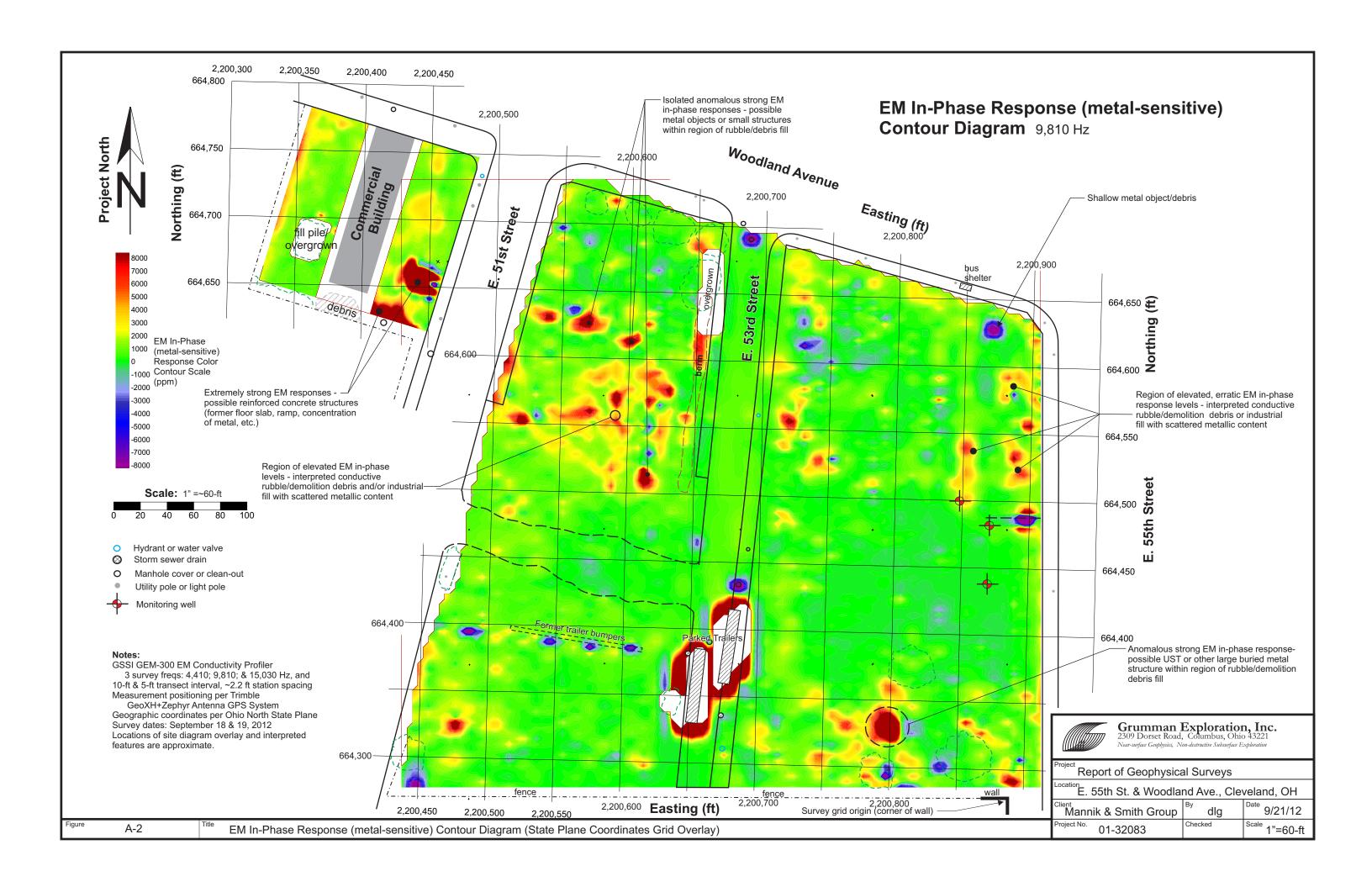
















Soil Boring / Monitoring Well Number: MW-01

Project Number: C3210002

Project Name: Maingate, Phase II ESA Site Location: Cleveland, Ohio

Client: Cuyahoga County
MSG Personnel: AWS

Contractor: Frontz Drilling

Driller: Joe

Drilling Method: Continuous Drill Rig: Geoprobe 6620 DT Total Depth: 26 feet MW Installation Date: 11/19/2012

Northing: NA Easting: NA

Ground Surface Elev.: 498.48

Depth (ft)	Elev. (ft.)	Well Diagram Casing Type: 1-inch PVC	Elev. (ft.)	Graphic Log	Description of Cuttings	Number	Туре	FID/PID (ppm)	Recovery (in.)	Remarks
-	497.48	Flush Mounted Well in Concrete			Sand and gravel FILL, brick fragments	1	DT			
-						2	DT			
5_		Bentonite Chips				3	DT			
-		Chips		000		4	DT			
10_	489.48		488.48	000	Down Oll TV CAMP down	5	DT			
-					Brown <u>SILTY SAND</u> , damp	6	DT			
-		Sand Filter	484.48		Gray <u>SILTY CLAY</u> , moist	7	DT			
15			482.48		Brown fine <u>SAND</u> , wet	8	DT			
-		0.01 Slotted Prepack Screen			DIOWITHING <u>OAINO</u> , wet	9	DT			
20_		Screen				10	DT			
-	477.23	MW Depth = 21.25'				11	DT			
-						12	DT			
25 -			472.48		End of Soil Boring = 26 feet	13	DT			
-					<u>20.03</u>					
30										



Soil Boring / Monitoring Well Number: MW-02

Project Number: C3210002

Project Name: Maingate, Phase II ESA Site Location: Cleveland, Ohio

Site Location: Cleveland, Ohi Client: Cuyahoga County MSG Personnel: AWS Contractor: Frontz Drilling

Driller: Joe

Drilling Method: Continuous Drill Rig: Geoprobe 6620 DT Total Depth: 26 feet MW Installation Date: 11/19/2012

Northing: NA Easting: NA

Ground Surface Elev.: 498.51

Depth (ft)	Elev. (ft.)	Well Diagram Casing Type: 1-inch PVC	Elev. (ft.)	Graphic Log	Description of Cuttings	Number	Туре	FID/PID (ppm)	Recovery (in.)	Remarks
-	497.51	Flush Mounted Well in Concrete			Brown sand <u>FILL</u> , concrete fragments	1	DT			
-						2	DT			
5						3	DT			
_		Bentonite Chips				4	DT			
10_						5	DT			
-						6	DT			
-	485.51		484.51	000	David for CAND fill david	7	DT			
15		Sand	482.51		Brown fine <u>SAND</u> , fill, damp	8	DT			
-					Gray fine <u>SAND</u> , little clay, wet	9	DT			
20_		0.01 Slotted Prepack Screen	478.51		Brown fine SAND and GRAVEL , wet	10	DT			
-					Brown line <u>SAND and GRAVEL</u> , wet	11	DT			
-						12	DT			
25	473.26	MW Depth = 25.25'	472.51		End of Cail Paring - 26 feet	13	DT			
-					End of Soil Boring = 26 feet					
30										



Soil Boring / Monitoring Well Number: MW-03

Project Number: C3210002

Project Name: Maingate, Phase II ESA Site Location: Cleveland, Ohio

Site Location: Cleveland, Ohio Client: Cuyahoga County MSG Personnel: AWS

Contractor: Frontz Drilling

Driller: Joe

Drilling Method: Continuous Drill Rig: Geoprobe 6620 DT Total Depth: 26 feet MW Installation Date: 11/19/2012

Northing: NA Easting: NA

Ground Surface Elev.: 499.96

Depth (ft)	Elev. (ft.)	Well Diagram Casing Type: 1-inch PVC	Elev. (ft.)	Graphic Log	Description of Cuttings	Number	Туре	FID/PID (ppm)	Recovery (in.)	Remarks
	498.96	Flush Mounted Well in Concrete			Sand and gravel <u>FILL</u> , brick fragments	1	DT			
						2	DT			
5_						3	DT			
		Bentonite Chips	491.96			4	DT			
10_			489.96		Brown SANDY CLAY , damp	5	DT			
					Brown <u>CLAY</u> , little sand and silt, wet	6	DT			
-	486.96		485.96			7	DT			
15_		Sand			Gray <u>CLAY</u> , little silt, damp	8	DT			
-		Filter	481.96			9	DT			
20_		0.01 Slotted Prepack Screen			Brown SAND and GRAVEL , wet	10	DT			
-						11	DT			
-						12	DT			
25 <u> </u>	474.88	MW Depth = 25.08'	473.96		End of Cail Parisa = 00 feet	13	DT			
					End of Soil Boring = 26 feet					
30										



Soil Boring / Monitoring Well Number: MW-04

Project Number: C3210002

Project Name: Maingate, Phase II ESA Site Location: Cleveland, Ohio Client: Cuyahoga County MSG Personnel: AWS

Contractor: Frontz Drilling

Driller: Joe

Drilling Method: Continuous Drill Rig: Geoprobe 6620 DT Total Depth: 26 feet

MW Installation Date: 11/20/2012

Northing: NA Easting: NA

Ground Surface Elev.: 498.58

Depth (ft)	Elev. (ft.)	Well Diagram Casing Type: 1-inch PVC	Elev. (ft.)	Graphic Log	Description of Cuttings	Number	Туре	FID/PID (ppm)	Recovery (in.)	Remarks
-	497.58	Flush Mounted Well in Concrete			Sand and gravel <u>FILL</u> , brick fragments	1	DT			
-						2	DT			
5_			493.58	00	Brown coarse <u>SAND</u> with gravel	3	DT			
-		Bentonite				4	DT			
10_						5	DT			
-	487.58		486.58	77777777	Brown CLAY with silt	6	DT			
-					DIOWH <u>GLAT</u> WILLISH	7	DT			
15 -		Sand	483.58		Brown coarse <u>SAND</u> with gravel, damp	8	DT			
-			480.58		Brown CLAY , trace silt, wet	9	DT			
20_		0.01 Slotted Prepack Screen	478.58		Brown coarse <u>SAND</u> , trace silt and	10	DT			
-			476.58		gravel, wet Brown fine SAND , trace gravel, wet	11	DT			
	475.28	MW Depth = 23.30'			2.5mi mo <u>orazo</u> , adoc giavo, not	12	DT			
25_ -			473.58		End of Soil Boring = 26 feet	13	DT			
					, and the second					
30										



Soil Boring / Monitoring Well Number: MW-05

Project Number: C3210002

Project Name: Maingate, Phase II ESA Site Location: Cleveland, Ohio

Site Location: Cleveland, Ohio Client: Cuyahoga County MSG Personnel: AWS

Contractor: Frontz Drilling

Driller: Joe

Drilling Method: Continuous Drill Rig: Geoprobe 6620 DT Total Depth: 26 feet MW Installation Date: 11/20/2012

Northing: NA Easting: NA

Ground Surface Elev.: 497.36

Depth (ft)	Elev. (ft.)	Well Diagram Casing Type: 1-inch PVC	Elev. (ft.)	Graphic Log	Description of Cuttings	Number	Туре	FID/PID (ppm)	Recovery (in.)	Remarks
	496.36	Flush Mounted Well in Concrete			Sand and gravel <u>FILL</u> , brick fragments	1	DT			
						2	DT			
5_			491.36			3	DT			
-		Bentonite Chips			Brown coarse <u>SAND and GRAVEL</u> , damp	4	DT			
10_						5	DT			
-						6	DT			
-	484.36					7	DT			
15		Sand	482.36		Brown fine SAND little silt, trace gravel, wet	8	DT			
-		Filter				9	DT			
20_		0.01 Slotted Prepack Screen				10	DT			
						11	DT			
		MW				12	DT			
25_	472.69	Depth = 24.67'	472.36		End of Soil Boring = 26 feet	13	DT			
-										
- 30										



Soil Boring / Monitoring Well Number: MW-06

Project Number: C3210002

Project Name: Maingate, Phase II ESA Site Location: Cleveland, Ohio

Site Location: Cleveland, Ohio Client: Cuyahoga County MSG Personnel: AWS

Contractor: Frontz Drilling

Driller: Joe

Drilling Method: Continuous Drill Rig: Geoprobe 6620 DT Total Depth: 26 feet **MW Installation Date:** 11/20/2012

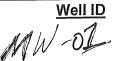
Northing: NA Easting: NA

Ground Surface Elev.: 500.09

<u> </u>										
Depth (ft)	Elev. (ft.)	Well Diagram Casing Type: 1-inch PVC	Elev. (ft.)	Graphic Log	Description of Cuttings	Number	Туре	FID/PID (ppm)	Recovery (in.)	Remarks
-	499.09	Flush Mounted Well in Concrete			Sand and gravel <u>FILL</u> , brick and wood fragments	1	DT			
-						2	DT			
5_						3	DT			
-		Bentonite Chips				4	DT			
10_			490.09			5	DT			
_					Brown SILT with clay, few sand seams	6	DT			
-	487.09					7	DT			
15		Sand	485.09		Brown coarse <u>SAND</u> with gravel, damp	8	DT			
-		Filter	482.09			9	DT			
20_		0.01 Slotted Prepack Screen			Brown fine <u>SAND</u> trace gravel and silt, wet	10	DT			
-						11	DT			
-						12	DT			
25	475.01	MW Depth = 25.08'	475.09		Fad of Call Daring - 20 feet	13	DT			
-					End of Soil Boring = 26 feet					
30										







**	3						189				
Ţ				t Informat							
Project #: <u>2321</u>	0002		Date:	11/28	3/12						
Site Name: VATA	MATE			*	_	Telephone #:	,				
MSG Personn	el Present:	AWS									
Regulatory O	bserver(s):										
Weather Conditions:					Ter	nperature °F:	35-0				
					1						
	Field Instrume						nitoring We				
	Level Measurement:		n H.01L	-							
	yer(s) Measurement:		n H.01L	-							
Measurement	of Field Parameters:		rious	-							
	Peristaltic Pump:	iviaste	rflex E/S	-	нуа	raulic Locatio	·III.				
		A	dditional M	onitorina	Well Data						
Well Condition/Evi	idence of Tampering:	A /	ne				Well	Diameter:	;		
Monitoring Purpose:	PHASE II			· · · · · · · · · · · · · · · · · · ·							
Total Depth (from TOC):	21.25	(ft.)	-	Static W	ater Level:	15.49		(ft.))		
= Height of Wate		(ft.)	•						_		
	s) Present: No /		•	Monitor Well	Volume/foot	Height of Water			Minimum Vol.		
			•	Diameter	of Water	Column	Water Column		to Purge (gal)		
Bottom of Layer:	/	(ft.)	•	1 (in)	0.041 (gal) x	(ft)	=	х3	=		
Thickness:	/	(ft.)		2 (in)	0.163 (gal) x		=	х3	=		
Immiscible Layer(s	Sampled: Yes / Not	Applicable		4 (in)	0.653 (gal) x	(ft)	=	х3	=		
A Processor						- D-4-					
	a		ing Well Pเ					T ! .!!! .	Discolud O		
	PERISTAUTIC	Well Volumes	Time	1	Temperature	"	Conductivity (µS /cm)	Turbidity	Dissolved O ₂		
Purging Start Time:			40.	(gal)	(°C)	(S.U.)		NTU 297	(mg/L)		
Purging Stop Time:		Initial	901	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	13.56	6.82	2.49	45.3	0.00		
Gallons Purged:		1	906	0.75	13.69	6.94	2.36	21.6			
Well Yield: High		2	911	1.25	/3.69	6.95	2.32	16.5	0.00		
Sampling Device:		3	916	1.75	13.86	6.96	2.30	13.8	0.00		
Time of Sampling:		<u>4</u> 5	921	AMPLED	15.14	9.19	2.50	(), a	0.00		
Second Attempt:		6		710 4080							
Third Attempt:		7									
Fourth Attempt: Fifth Attempt:		Final									
		Tillal	L								
Topics and the second of the s		S	Sample Cor	ntainer Info	ormation						
Sample ID	Parameter		ntainer	Contain		No. of Co	ontainers		ervative		
MW-01	Vocs	40 m	L VOA	4an L	•	3_		HACL			
APRICATE CONT.											
						•					
	:										
			and the second s								
			C	omments							
WELL YELD	VERY HIGH	6-1018-		AFTER 1	WELL	Vorume	(14.49')				
wow year	V-~ MIGH	JITIP		, , o tary		- J.	· //				
Samples Shinned to:	GEO AWALYNI	CAL	Via:								
Form Completed By:			•								



veil ID

♣	Стоир								
			Projec	t Informat	ion				
Project #: (3210	902		Date:	11/2	8/12				
Site Name: MAZ						Telephone #:			
MSG Personnel	A .	5							
Regulatory Obs						. 0-	A		
Weather Conditions: _	Sump				Ten	nperature °F:	35		
	Field Instrume	ntation				Mor	nitoring We	II Data	
Static Water I	_evel Measurement:	Hero	n H.01L	_	Ground	d Surface Ele	v.:		
Immiscible Lay	er(s) Measurement:	Hero	n H.01L	•	Тор	of Casing Ele	v.:		
Measurement o	of Field Parameters:			_	ll .	ınd Water Ele			
	Peristaltic Pump:	Maste	rflex E/S		Hyd	raulic Locatio	n:		
		Δ	dditional M	onitoring	Well Data				
Well Condition/Evid	ence of Tampering:			omtoring	vvoii Bata		Well	l Diameter:	/"
Monitoring Purpose:		7.0							
Total Depth (from TOC):		(ft.)	•	Static W	ater Level:	15.2	ブ	(ft.)	•
= Height of Water	Column:	(ft.)	-						
	Present: No		-	Monitor Well		Height of Water	Volume of Water Column		Minimum Vol. to Purge (gal)
Top of Layer: _			-	Diameter	of Water	Column			
-			-	1 (in)	0.041 (gal) x		=	x3	=
Thickness:		(ft.)	-	2 (in)	0.163 (gal) x		=	x3 x3	=
Immiscible Layer(s)	Sampled: Yes / Not /	Applicable	_	4 (in)	0.653 (gal) x	(19			
		Monitor	ing Well Pເ	urging and	Sampling	g Data			
Purging Device:	PERTSTAUTT	* Well	Time	Vol. Purged	Temperature	pН	Conductivity	Turbidity	Dissolved O ₂
Purging Start Time:		Volumes		(gal)	(°C)	(S.U.)	(AS/cm)	NTU	(mg/L)
Purging Stop Time:		Initial	955	_	11.27	7.13	2.83	212	0.00
Gallons Purged: _		11	1000	0.5	12,94	7.23	3.61	19.7	0.00
Well Yield: High /		2	1005	0.75	12.71	7.28	3.36	21.0	0.00
Sampling Device:		3	1000	1.25	12.76	7.30 7.50	3.30 3.29	19.9	0.00
Time of Sampling:		<u>4</u> 5	1015	Eggne		7.50	3.07	C7.0	0.88
Second Attempt: _ Third Attempt:		6	4626	Statu !	LEIS				
Fourth Attempt:		7							
Fifth Attempt:		Final							
					4.5				
			Sample Cor		تنصيبا والمرازوس والمساولية والمناور	N		Dros	ervative
Sample ID MW-02	Parameter	Vo	ntainer 7	Contair HO M	***	No. of Co	ontainers	HC.	The second secon
10100-0.5	VOCS	VU	n	210 %					Cutor
			C	omments					
•		_		Jillinents					
Samples Shipped to:		-	_ Via:						
Form Completed By:									



Well ID

MW-03

, A.									
			Projec	t Informat	ion				
Project #: <u>C 3210</u>	7 00°C		Date:	11/2	8/12				
Site Name: / / 45N	16 BSE				•	Telephone #:			
	el Present: Aws								
	· · ·				Ten	nperature °F:	350		
Weather Conditions:	- Grand				1011	iperature 11	37		
	Field Instrume	atation				Mor	nitoring We	II Data	
04-41-18/-4			1 H.01L		Ground	d Surface Ele	_		
	Level Measurement:			-	Ton	of Casing Ele	···		
Immiscible La	yer(s) Measurement:	Heror	1 H.UIL	-		nd Water Ele			
Measurement	of Field Parameters:			-	1				
	Peristaltic Pump:	Master	flex E/S	•	Нуа	raulic Locatio	n:		
			lditional M	anitarina	Mall Data				
							Wall	Diameter:	/ "
	dence of Tampering:		inl				vveii	Diameter.	
Monitoring Purpose:									
Total Depth (from TOC):	25.08	(ft.)	-	Static W	ater Level:	17.05		(ft.)	-
= Height of Wate		(ft.)						7	
	s) Present: No /	Yes		Monitor Well	Volume/foot	Height of Water			Minimum Vol.
				Diameter	of Water	Column	Water Column		to Purge (gal)
Bottom of Lavor		(ft.)		1 (in)	0.041 (gal) x	(ft)	=	х3	=
Thickness:		(ft.)		2 (in)	0.163 (gal) x		=	х3	=
miniculess.		(11.7		4 (in)	0.653 (gal) x			х3	=
immiscible Layer(s)	Sampled: Yes / Not	Applicable		4 (111)	0.000 (gai) X	(19)			
		Monitori	ng Well Pu	irging and	Samplin	g Data			
Purging Device:	AG05160,001	Well	ng mon r		Temperature		Conductivity	Turbidity	Dissolved O ₂
		Volumes	Time		(°C)	(S.U.)	(μS/cm)	NTU	(mg/L)
Purging Start Time:			10/10	(gal)			1.13	204	0.04
Purging Stop Time:		Initial	1049		10.78	7.07		30.4	0.00
Gallons Purged:		1	1053	0.5	12.79	6.95	1.72	8.3	Overs
Well Yield: High	/ Moderate / Low	2	1057	0.75	13.22	6.94	1.90		
Sampling Device:		3	to 1101	1.0	13.24	6.94	1.95	3.9	0.00
Time of Sampling:		4	1105	1.25	13.22	6.94	1.98	3.6	0,00
Second Attempt:		5	Spa	ME					
Third Attempt:		6							
Fourth Attempt:		7							
Fifth Attempt:		Final							
1 IIII Attempt								(A)	
		S	ample Cor	ntainer Inf	ormation				
Sample ID	Parameter		tainer	Contair		No. of Co	ontainers		ervative
MW-63	PAH	Amber		11		2		Na	~e
MW-03	LEAD, Chronium	Por		500	nL	1		HNO	2
DUP112812	LEAD	Per		500,		ì		NWE	5 6
DW 112812	LOND	100	·)
					n				
						<u> </u>		L	
			C	omments					
	A	(
Samples Shipped to:	: ago Analy hi	(A)	Via:						
Form Completed By:	Mark		,						•



Well ID

MW-04

•	бгоцр						/01	00.0	7
			Projec	t Informat	ion				
Project #: C 31 1000	1		Date	11/28	117				
Site Name: MATA	CARE		Date.	- 1// 2 3	7	Геlephone #:	_		
MSG Personne		5			•		-		
	server(s):	-							
Weather Conditions:	A .				Tem	perature °F:	40		
	Field Instrume				_		itoring We		
	Level Measurement:			-			v.:		
	yer(s) Measurement:			-			v.:		
Measurement	of Field Parameters:			-			v.:		
	Peristaltic Pump:	Maste	erflex E/S	-	Hyar	aulic Locatio	11.		
		Δ	dditional M	onitoring	Well Data				
Well Condition/Evid	dence of Tampering:	Non					Well	Diameter:	
Monitoring Purpose:									
Total Depth (from TOC):				Static W	ater Level:	15.7	75	(ft.)	
• •	r Column:				•				
_) Present: No /		_	Monitor Well		Height of Water			Minimum Vol.
Top of Layer:		(ft.	<u>)</u>	Diameter	of Water	Column	Water Column		to Purge (gal)
			<u>)</u>	1 (in)	0.041 (gal) x	(ft)	=	x 3	=
Tillolaicoo.			-	2 (in)	0.163 (gal) x	(ft)		x 3	
Immiscible Layer(s)	Sampled: Yes / Not	Applicable	_	4 (in)	0.653 (gal) x	(ft)	=	х3	=
		Monito	ing Well Pเ	iraina and	Sampline	n Data			
Ďuvelne Douloo.	20000		Ing wen ru	7	Temperature	pH	Conductivity	Turbidity	Dissolved O ₂
Purging Device:	TENGGIRCIAC	Well Volumes	Time	(gal)	(°C)	(S.U.)	(μS/cm)	NTU	(mg/L)
Purging Start Time:		Initial	1150	(gai) -	13.61	6.86	1.02	90.0	7.52
Purging Stop Time: Gallons Purged:		1	1154	0.25	13.82	6.77	1,01	24.3	7.63
Well Yield: High	/ Moderate / Low	2	1158	0.50	14.18	6.74	1.01	3.6	2.80
Sampling Device:		3	1202	0.75	14.39	6.71	1.00	2.0	2.89
Time of Sampling:		4	1206	1.0	14.44	6.13	1.00	1.5	200
Second Attempt:		5	1						
Third Attempt:		6							
Fourth Attempt:		7							
Fifth Attempt:	-	Final							
				4-11-6					
			Sample Cor	Contain		No. of Co	ntainore	Dree	ervative
Sample ID	Parameter		ntainer		***************************************	NO. 01 CC	nitaniei 5	Nov	
MW-04 FB112812	PAH PAH	Am	per	12		2	_	Non	
EB112812	VOC	VOI		Hom	1.	3		HCI	
66112812	700	, ,							
						WARRIES .			
	- Denies		Co	omments					
Egmip Bla	ne that:	Baile	<u> </u>						,
O-male - Old	Carlos Ama 1 1 in		\/ic-						
Samples Shipped to: Form Completed By:		a	_ Via:						



Well ID

1W-05

❖	Стопр						/ / (w·05	
			Projec	ct Informat	ion				
Project#: C32	10000			: (1/28/1					
Site Name: MA			Buto			Telephone #:		13	-
	el Present: Aw					•			
Regulatory Ob									
Weather Conditions:					Ten	nperature °F:	40		
							16 - 1 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	Field Instrume		11.041		0		nitoring We		j.
	Level Measurement:		ron H.01L	-		d Surface Ele			
	yer(s) Measurement:			-		of Casing Elevent of Water Elevent			
ivieasurement	of Field Parameters: Peristaltic Pump:		terflex E/S	-	1	raulic Locatio			
	renstante rump.	IVIAS	Sterilex L/O		Tiyui	uano Locatio	***		
			Additional N	lonitoring	Well Data				
Well Condition/Evi	dence of Tampering:	No	ne				Well	Diameter:	
Monitoring Purpose:	PhyseII								<u> </u>
Total Depth (from TOC):	24.67	(ft.) -	Static W	ater Level:	14.73	3	(ft.)	-
= Height of Wate			ft.)	F*				i	1.6.
) Present: No			Monitor Well Diameter	Volume/foot of Water	Height of Water Column	Volume of Water Column		Minimum Vol. to Purge (gal)
Top of Layer:			ft.)			(ft)		V 2	=
Bottom of Layer:			ft.)	1 (in)	0.041 (gal) x			x3 x3	=
Thickness:	Sampled: Yes / Not		ft.)	2 (in) 4 (in)	0.163 (gal) x 0.653 (gal) x	(ft)		x3	=
miniscible Layer(s)	Oampieu: 1037 Not	тррпоавт	<u> </u>	- (11)	0.000 (ga.) X	(.4)			
	0 .	Monito	oring Well P	urging and	Sampling	g Data			
Purging Device:	PEKISTALTIC	Well	Time	Vol. Purged	Temperature	рН	Conductivity	Turbidity	Dissolved O ₂
Purging Start Time:		Volumes	3	(gal)	(°C)	(S.U.)	(μS/cm)	NTU	(mg/L)
Purging Stop Time:		Initial	1234		12.45	7.01	3.34		0.00
Gallons Purged:		1 -	1238	0.5	12.48	7.03	3.29	32.5	G0.0
Well Yield: High		2	1242	0.75	12.59	7,07	3.19	24.4	0.00
Sampling Device:		3	1246	1.0	12.57	7.02	3.11	14.1	0.00
Time of Sampling:		4	P50	1.25	12.60	7.02	3.03	9.8	0.00
Second Attempt:		5							
Third Attempt:		6 7							
Fourth Attempt: Fifth Attempt:		Final							
i ildi Attempt.		Tillai							
			Sample Co	ntainer Info	ormation				
Sample ID	Parameter		ontainer	Contain	er Size	No. of Co	ntainers		ervative
MW-05	PAH	An	ber	11		2		Nov	re
		·· • · · · · · · · · · · · · · · · · ·							
		,							
								-	
L									
			С	omments					
	1.7. A 1 1:	1	- 44						
Samples Shipped to:	WAEDHUM HIM	N.	Via:						



Well ID MW-06

*	ուսութ	**							
			Projec	t Informat	ion				
Project #: (32)	600Z			11/28					
Site Name: MATA						Telephone #:			
MSG Personne		5			-	•			
Regulatory Ob									
Weather Conditions:	& OVERCA	55			Ten	nperature °F:	350		
					1	Mar	nitoring We	II Data	
Statia Water	Field Instrume		n H.01L		Groun		_		
	Level Measurement:		n H.01L	-	Ton	of Casing Fle	v		
·	yer(s) Measurement: of Field Parameters:		rious ·	-	Grou	ind Water Fle	v:		
Measurement	Peristaltic Pump:		rflex E/S	-		raulic Locatio			
	T Officiality T differ				<u> </u>				
		A	dditional M	onitoring	Well Data				. , ,
	dence of Tampering:						Wel	l Diameter:	
Monitoring Purpose: Total Depth (from TOC):		was I				177 72			
		(ft.)	•	Static W	ater Level:	17.35		(ft.)	-
= Height of Wate		(ft.)	•	Maritania	Value 2 16 1	Hoight of Mate	Volume of		Minimum Vol.
immiscible Layer(s	s) Present:	Yes (ft.)	-	Monitor Well Diameter	of Water	Height of Water Column	Water Column		to Purge (gal)
Rottom of Layer:		(ft.)	-	1 (in)	0.041 (gal) x	(ft)	=	х3	=
Thickness:		(ft.)	•	2 (in)	0.163 (gal) x		=	х3	=
THICKINGS.	Sampled: Yes / Not	(14.7	•	4 (in)	0.653 (gal) x			х3	=
minicololo Edyor(c)									
	100	Monitor	ing Well Ρι						
	ERTSPALTER	Well	Time	Vol. Purged	Temperature		Conductivity	Turbidity	Dissolved O ₂
Purging Start Time:		Volumes		(gal)	(°C)	(S.U.)	(μS/cm)	NTU	(mg/L)
Purging Stop Time:		Initial	1327	A 1.5	13.22	7.23	2.44	78.6	6.83
Gallons Purged:		11	1331	0.15	13.35		2.44 2.48	42.7	0.9%
Well Yield: High		2	1335	1.6	12.68		2.47	16.3	6.93
Sampling Device:		3	1339	1.25	12.64	7.23	2.44	12.4	0.75
Time of Sampling:		4	1343	1.5	16.16	1.00	C 1 1 9	2.1	0.77
Second Attempt:		5 6							
Third Attempt: Fourth Attempt:		7							
Fifth Attempt:		Final							
Thui Attempt.		Tinal							
		S	Sample Cor					******	
Sample ID	Parameter		ntainer	Contain		No. of Co	ontainers		ervative
MW-06	VOCS	Vo		70	ml	3		1-1 (
MW-06	PAHS		ber			2			to None
NW-06	ARSENIL	Vic	shi	300	2mL			ЦNO	3

			Co	omments					
				-				<u></u>	-
Samples Shipped to:	GEOGRAPHICE		Via:						
Form Completed By:		-	. via.						

APPENDIX E: LABORATORY REPORTS



Affidavit of VAP Certified Laboratory (April 2011 Template)

[For VAP certified laboratories to attest to "certified data" under OAC 3745-300-13(N) and OAC 3745-300-04(A). Note that Ohio EPA is to receive a legible copy of the CL's affidavit. The entity that received the CL's analytical report under affidavit may retain the CL's affidavit original.]

State of Ohio)
) ss:
County of Summit)

- I, Thomas Morsefield, being first duly sworn according to law, state that, to the best of my knowledge, information and belief:
- 1. I am an adult over the age of eighteen years old and competent to testify herein.
- 2. I am employed by GEO Analytical, Inc. ("the laboratory") as President. I am authorized to submit this affidavit on behalf of the laboratory.
- 3. The purpose of this submission is to support a request for a no further action letter or other aspects of a voluntary action, under Ohio's Voluntary Action Program (VAP) as set forth in Ohio Revised Code Chapter 3746 and Ohio Administrative Code (OAC) Chapter 3745-300.
- 4. GEO Analytical, Inc. performed analyses for The Mannik & Smith Group, Inc. for a voluntary action at property known as C3210002-Maingate
- 5. This affidavit applies to and is submitted with the following information, data, documents or reports for the property:

Document ID 1211017

Date of Document 12/07/2012

- 6. GEO Analytical, Inc. was a VAP certified laboratory pursuant to OAC 3745-300-04 when it performed the analyses referenced herein.
- 7. All analyses under this affidavit consist of VAP "certified data" as described in OAC 3745-300-04(A) - unless paragraph b., below, specifies the exceptions:
 - a. The laboratory performed the analyses within its current VAP certification. The laboratory was certified for each analyte, parameter group and method used at the time that it performed the analyses. The analyses were performed consistent with the laboratory's standard operating procedures and quality assurance program plan as approved under OAC 3745-300-04.
 - b. Exceptions, if any: The analyses specified below (a) may not have been or were not performed consistent with laboratory's procedures as required by its Ohio EPA-approved SOP or QAPP, or (b) are not encompassed by VAP's certified lab program.

Sample Number / Document ID None noted

Analyte / Parameter Group

Method

The information, data, documents and reports identified under this affidavit are true, accurate and complete.

Further affiant sayeth naught.

Signature of Affiant

Notary Public

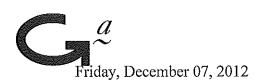
A. Bell, Notary Public

State of Ohio

Recorded in Summit County

My Commission Expires April 25, 2017

Revised 5/09, 8/09, 4/11; consistent with OAC 3745-300-04 (10/14/06, and rev. eff. 3/1/09 versions)



John Zampino The Mannik & Smith Group, Inc. 23225 Mercantile Rd. Beachwood, Ohio 44122

TEL: 216-378-1490 FAX 216-378-1497

RE: C3210002-Maingate

Dear John Zampino:

Order No.: 1211017

GEO Analytical, Inc. received 10 sample(s) on 11/28/2012 for the analyses presented in the following report.

Analyses and all data for associated QC met laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Reviewed by

G E O Analytical, Inc



Date: 07-Dec-12

CLIENT:

The Mannik & Smith Group, Inc.

Project:

C3210002-Maingate

Lab Order: 1211017

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
1211017-001A	MW-01		11/28/2012	11/28/2012
1211017-002A	MW-02		11/28/2012	11/28/2012
1211017-003A	MW-03		11/28/2012	11/28/2012
1211017-003B	MW-03		11/28/2012	11/28/2012
1211017-004A	MW-04		11/28/2012	11/28/2012
1211017-005A	MW-05		11/28/2012	11/28/2012
1211017-006A	MW-06		11/28/2012	11/28/2012
1211017-006B	MW-06	•	11/28/2012	11/28/2012
1211017-006C	MW-06		11/28/2012	11/28/2012
1211017-007A	DUP112812		11/28/2012	11/28/2012
1211017 - 008A	FB112812		11/28/2012	11/28/2012
1211017-009A	EB112812		11/28/2012	11/28/2012
1211017-010A	TRIP BLANK		11/28/2012	11/28/2012

G E O Analytical, Inc

G Analytical, Inc.

Date: 07-Dec-12

CLIENT:

The Mannik & Smith Group, Inc.

Project:

C3210002-Maingate

Lab Order:

1211017

CASE NARRATIVE

The laboratory control sample containing one or more of the target compounds was above the established upper control limit, but the compound was not detected in the sample. The data is reportable with no expected bias. CRC

Applies to the following sample(s): LCS-11805



CLIENT:

The Mannik & Smith Group, Inc.

Client Sample ID: MW-01

Lab Order:

1211017

Tag Number:

Project:

C3210002-Maingate

Collection Date: 11/28/2012

Lab ID:

1211017-001A

Date Received: 11/28/2012

Matrix: AQUEOUS

Analyses	Result	Limit Qual	Units	Date Analyzed
VOLATILE ORGANIC COMPOUNDS IN WATER		SW8260A	(SW5030A)	Analyst: cc
1,1,1,2-Tetrachloroethane	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,1,1-Trichloroethane	· ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,1,2,2-Tetrachloroethane	ND	5.00	µg/L	11/29/2012 11:57:00 AM
1,1,2-Trichloroethane	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,1-Dichloroethane	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,1-Dichloroethene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,1-Dichloropropene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,2,3-Trichlorobenzene	ND	5.00	µg/L `	11/29/2012 11:57:00 AM
1,2,3-Trichloropropane	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,2,4-Trichlorobenzene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,2,4-Trimethylbenzene	ND	5.00	µg/L	11/29/2012 11:57:00 AM
1,2-Dibromo-3-chloropropane	ND ·	5.00	μg/L	11/29/2012 11:57:00 AM
1,2-Dibromoethane	ND	2.00	μg/L	11/29/2012 11:57:00 AM
1,2-Dichlorobenzene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,2-Dichloroethane	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,2-Dichloropropane	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,3,5-Trimethylbenzene	ND ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,3-Dichlorobenzene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,3-Dichloropropane	. ND	5.00	μg/L	11/29/2012 11:57:00 AM
1,4-Dichlorobenzene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
2,2-Dichloropropane	ND	5.00	μg/L	11/29/2012 11:57:00 AM
2-Butanone	ND	.100	μg/L	11/29/2012 11:57:00 AM
2-Chlorotoluene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
2-Hexanone	ND	100	μg/L	11/29/2012 11:57:00 AM
4-Chlorotoluene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	11/29/2012 11:57:00 AM
4-Methyl-2-pentanone	ND	100	μg/L	11/29/2012 11:57:00 AM
Acetone	ND	100	μg/L	11/29/2012 11:57:00 AM
Benzene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
Bromobenzene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
Bromochloromethane	ND	5.00	µg/L	11/29/2012 11:57:00 AM
Bromodichloromethane	ND	5.00	μg/L	11/29/2012 11:57:00 AM
Bromoform	ND	5.00	μg/L	11/29/2012 11:57:00 AM
Bromomethane	ND	5.00	μg/L	11/29/2012 11:57:00 AM
Carbon disulfide	ND	5.00	μg/L	11/29/2012 11:57:00 AM
Carbon tetrachloride	ND	5.00	μg/L	11/29/2012 11:57:00 AM
Chlorobenzene	ND	5.00	μg/L	11/29/2012 11:57:00 AM
Chloroethane	ND	5.00	μg/L	11/29/2012 11:57:00 AM
Chloroform	ND	5.00	μg/l.	11/29/2012 11:57:00 AM

^{*} Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



CLIENT:

The Mannik & Smith Group, Inc.

Client Sample ID: MW-02

Lab Order:

1211017

Tag Number:

Project:

C3210002-Maingate

Collection Date: 11/28/2012

Lab ID:

1211017-002A

Date Received: 11/28/2012

Matrix: AQUEOUS

Analyses	Result	Limit Qual	Units	Date Analyzed
VOLATILE ORGANIC COMPOUND	S IN WATER	SW8260A	(SW5030A)	Analyst: cc
1,1,1,2-Tetrachloroethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,1,1-Trichloroethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,1,2,2-Tetrachloroethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,1,2-Trichloroethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,1-Dichloroethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,1-Dichloroethene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,1-Dichloropropene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,2,3-Trichlorobenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,2,3-Trichloropropane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,2,4-Trichlorobenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,2,4-Trimethylbenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,2-Dibromo-3-chloropropane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,2-Dibromoethane	ND	2.00	μg/L	11/29/2012 12:46:00 PM
1,2-Dichlorobenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,2-Dichloroethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,2-Dichloropropane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,3,5-Trimethylbenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,3-Dichlorobenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,3-Dichloropropane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
1,4-Dichlorobenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
2,2-Dichloropropane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
2-Butanone	ND	100	μg/L	11/29/2012 12:46:00 PM
2-Chlorotoluene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
2-Hexanone	ND	100	μg/L	11/29/2012 12:46:00 PM
4-Chlorotoluene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
4-Isopropyltoluene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
4-Methyl-2-pentanone	ND	100	μg/L	11/29/2012 12:46:00 PM
Acetone	ND	100	μg/L	11/29/2012 12:46:00 PM
Benzene -	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Bromobenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Bromochloromethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Bromodichloromethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Bromoform	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Bromomethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Carbon disulfide	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Carbon tetrachloride	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Chlorobenzene	ND	5.00	µg/L	11/29/2012 12:46:00 PM
Chloroethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Chloroform	ND	5.00	μg/L	11/29/2012 12:46:00 PM

^{*} Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



CLIENT:

The Mannik & Smith Group, Inc.

Client Sample ID: MW-01

Lab Order:

1211017

Tag Number:

Project:

C3210002-Maingate

Collection Date: 11/28/2012

Lab ID:

1211017-001A

Date Received: 11/28/2012

Matrix: AQUEOUS

VOLATILE ORGANIC COMPOUNDS IN WATER SW8260A Chloromethane ND 5.00 cis-1,2-Dichloroethene ND 5.00 cis-1,3-Dichloropropene ND 5.00 Dibromochloromethane ND 5.00 Dibromomethane ND 5.00 Dichlorodifluoromethane ND 5.00 Ethylbenzene ND 5.00 Hexachlorobutadiene ND 5.00 Isopropylbenzene ND 5.00 Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00 n-Propylbenzene ND 5.00	A (SW5030A) μg/L μg/L	Analyst: cc 11/29/2012 11:57:00 AM
Chloromethane ND 5.00 cis-1,2-Dichloroethene ND 5.00 cis-1,3-Dichloropropene ND 5.00 Dibromochloromethane ND 5.00 Dibromomethane ND 5.00 Dichlorodifluoromethane ND 5.00 Ethylbenzene ND 5.00 Hexachlorobutadiene ND 5.00 Isopropylbenzene ND 5.00 m,p-Xylene ND 5.00 Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00		11/29/2012 11:57:00 AM
cis-1,3-Dichloropropene ND 5.00 Dibromochloromethane ND 5.00 Dibromomethane ND 5.00 Dichlorodifluoromethane ND 5.00 Ethylbenzene ND 5.00 Hexachlorobutadiene ND 5.00 Isopropylbenzene ND 5.00 m,p-Xylene ND 5.00 Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00	µa/L	1 112012012 11.01.007481
Dibromochloromethane ND 5.00 Dibromomethane ND 5.00 Dichlorodifluoromethane ND 5.00 Ethylbenzene ND 5.00 Hexachlorobutadiene ND 5.00 Isopropylbenzene ND 5.00 m,p-Xylene ND 5.00 Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00		11/29/2012 11:57:00 AM
Dibromomethane ND 5.00 Dichlorodifluoromethane ND 5.00 Ethylbenzene ND 5.00 Hexachlorobutadiene ND 5.00 Isopropylbenzene ND 5.00 m,p-Xylene ND 5.00 Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
Dichlorodifluoromethane ND 5.00 Ethylbenzene ND 5.00 Hexachlorobutadiene ND 5.00 Isopropylbenzene ND 5.00 m,p-Xylene ND 5.00 Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
Ethylbenzene ND 5.00 Hexachlorobutadiene ND 5.00 Isopropylbenzene ND 5.00 m,p-Xylene ND 5.00 Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
Hexachlorobutadiene ND 5.00 Isopropylbenzene ND 5.00 m,p-Xylene ND 5.00 Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
Isopropylbenzene ND 5.00 m,p-Xylene ND 5.00 Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
m,p-Xylene ND 5.00 Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00	µg/L	11/29/2012 11:57:00 AM
Methyl tert-butyl ether ND 5.00 Methylene chloride ND 5.00 Naphthalene ND 5.00 n-Butylbenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
Naphthalene ND 5.00 n-Butylbenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
n-Butylbenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
	μg/L	11/29/2012 11:57:00 AM
n-Propylhenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	μg/L	11/29/2012 11:57:00 AM
o-Xylene ND 5.00	μg/L	11/29/2012 11:57:00 AM
sec-Butylbenzene ND 5.00	μg/L	11/29/2012 11:57:00 AM
Styrene ND 5.00	μg/L ·	11/29/2012 11:57:00 AM
tert-Butylbenzene ND 5.00	µg/L	11/29/2012 11:57:00 AM
Tetrachloroethene ND 5.00	μg/L	11/29/2012 11:57:00 AM
Toluene ND 5.00	μg/L	11/29/2012 11:57:00 AM
trans-1,2-Dichloroethene ND 5.00	μg/L	11/29/2012 11:57:00 AM
trans-1,3-Dichloropropene ND 5.00	μg/L	11/29/2012 11:57:00 AM
Trichloroethene ND 5.00	μg/L	11/29/2012 11:57:00 AM
Trichlorofluoromethane ND 5.00	μg/L	11/29/2012 11:57:00 AM
Vinyl acetate ND 100	μg/L	11/29/2012 11:57:00 AM
Vinyl chloride ND 2.00	μg/L	. 11/29/2012 11:57:00 AM
Surr: 1,2-Dichloroethane d4 96.4 85.5-109	%REC	11/29/2012 11:57:00 AM
Surr: Bromofluorobenzene 100 82.8-118	%REC	11/29/2012 11:57:00 AM
Surr: Toluene-d8 96.0 87.1-112		

^{*} Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



CLIENT:

The Mannik & Smith Group, Inc.

Client Sample ID: MW-02

Lab Order:

1211017

Tag Number:

Project:

C3210002-Maingate

Collection Date: 11/28/2012

Lab ID:

1211017-002A

Date Received: 11/28/2012

Matrix: AQUEOUS

Analyses	Result	Limit Qual	Units	Date Analyzed
VOLATILE ORGANIC COMPOUNDS	S IN WATER	SW8260A	(SW5030A)	Analyst: cc
Chloromethane	ND	5.00	μg/ L	11/29/2012 12:46:00 PM
cis-1,2-Dichloroethene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
cis-1,3-Dichloropropene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Dibromochloromethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Dibromomethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Dichlorodifiuoromethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Ethylbenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Hexachlorobutadiene	ND	5.00	µg/L	11/29/2012 12:46:00 PM
Isopropylbenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
m,p-Xylene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Methyl tert-butyl ether	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Methylene chloride	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Naphthalene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
n-Butylbenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
n-Propylbenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
o-Xylene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
sec-Butylbenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Styrene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
tert-Butylbenzene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Tetrachloroethene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Toluene	62.2	5.00	μg/ L	11/29/2012 12:46:00 PM
trans-1,2-Dichloroethene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
trans-1,3-Dichloropropene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Trichloroethene	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Trichlorofluoromethane	ND	5.00	μg/L	11/29/2012 12:46:00 PM
Vinyl acetate	ND	100	μg/L	11/29/2012 12:46:00 PM
Vinyl chloride	ND	2.00	μg/L	11/29/2012 12:46:00 PM
Surr: 1,2-Dichloroethane d4	96.6	85.5-109	%REC	11/29/2012 12:46:00 PM
Surr: Bromofluorobenzene	98.8	82.8-118	%REC	11/29/2012 12:46:00 PM
Surr: Toluene-d8	98.0	87.1-112	%REC	11/29/2012 12:46:00 PM

^{*} Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



CLIENT:

The Mannik & Smith Group, Inc.

Client Sample ID: MW-03

Lab Order:

1211017

Tag Number:

Project:

C3210002-Maingate

Collection Date: 11/28/2012

Lab ID:

1211017-003A

Date Received: 11/28/2012

Matrix: AQUEOUS

Analyses	Result	Limit Qual	Units	Date Analyzed
SEMIVOLATILE ORGANICS IN WATER		SW8270C	(SW3510)	Analyst: TL
Acenaphthene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Acenaphthylene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Anthracene	ND	0.150	µg/L	11/29/2012 6:21:00 PM
Benzo[a]anthracene	ND	0.150	μg/L	11/29/2012 6:21:00 PM .
Benzo[a]pyrene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Benzo[b]fluoranthene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Benzo[g,h,i]perylene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Benzo[k]fluoranthene	ND	0.150	µg/L	11/29/2012 6:21:00 PM
Chrysene	ND	0.150	µg/L	11/29/2012 6:21:00 PM
Dibenz[a,h]anthracene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Fluoranthene	ND	0.150	µg/L	11/29/2012 6:21:00 PM
Fluorene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Naphthalene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Phenanthrene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Pyrene	ND	0.150	μg/L	11/29/2012 6:21:00 PM
Surr: 2-Fluorobiphenyl	49.7	32.2-113	%REC	11/29/2012 6:21:00 PM
Surr: 4-Terphenyl-d14	88.1	53.5-130	%REC	11/29/2012 6:21:00 PM
Surr: Nitrobenzene-d5	45.9	18.5-130	%REC	11/29/2012 6:21:00 PM

Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



CLIENT:

The Mannik & Smith Group, Inc.

Client Sample ID: MW-03

Lab Order:

1211017

Tag Number:

Project:

C3210002-Maingate

Lab ID:

Collection Date: 11/28/2012

1211017-003B

Date Received: 11/28/2012

Matrix: AQUEOUS

Analyses	Result	Limit Qual	Units	Date Analyzed
METALS IN WATER BY ICP		SW6010B	(SW3005A)	Analyst: AOR
Chromium	ND	0.00500	mg/L	12/6/2012 2:44:00 PM
Lead	ND	0.00500	mg/L ·	12/6/2012 2:44:00 PM

- Value exceeds Maximum Contaminant Level
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit



CLIENT:

The Mannik & Smith Group, Inc.

Client Sample ID: MW-04

Lab Order:

1211017

Tag Number:

Project:

C3210002-Maingate

Collection Date: 11/28/2012

Lab ID:

1211017-004A

Date Received: 11/28/2012

Matrix: AQUEOUS

Analyses	Result	Limit Qual	Units	Date Analyzed
SEMIVOLATILE ORGANICS IN WATER		SW8270C	(SW3510)	Analyst: TL
Acenaphthene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Acenaphthylene	ND	0.150	μg/L	11/29/2012 7;06:00 PM
Anthracene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Benzo[a]anthracene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Benzo[a]pyrene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Benzo[b]fluoranthene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Benzo[g,h,i]perylene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Benzo[k]fluoranthene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Chrysene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Dibenz[a,h]anthracene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Fluoranthene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Fluorene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Naphthalene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Phenanthrene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Pyrene	ND	0.150	μg/L	11/29/2012 7:06:00 PM
Surr: 2-Fluorobiphenyl	43.8	32.2-113	%REC	11/29/2012 7:06:00 PM
Surr: 4-Terphenyl-d14	85.4	53.5-130	%REC	11/29/2012 7:06:00 PM
Surr: Nitrobenzene-d5	42.6	18.5-130	%REC	11/29/2012 7:06:00 PM

^{*} Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



CLIENT:

The Mannik & Smith Group, Inc.

Client Sample ID: MW-05

Lab Order:

1211017

Tag Number:

Project:

C3210002-Maingate

Lab ID:

Collection Date: 11/28/2012

1211017-005A

Date Received: 11/28/2012

Matrix: AQUEOUS

Analyses	Result	Limit Qual	Units	Date Analyzed
SEMIVOLATILE ORGANICS IN WATER		SW8270C	(SW3510)	Analyst: TL
Acenaphthene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Acenaphthylene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Anthracene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Benzo[a]anthracene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Benzo[a]pyrene	ND	0.150	μg/L`	11/29/2012 7:51:00 PM
Benzo[b]fluoranthene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Benzo[g,h,i]perylene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Benzo[k]fiuoranthene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Chrysene	ND	0.150	μ̀g/L	11/29/2012 7:51:00 PM
Dibenz[a,h]anthracene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Fluoranthene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Fluorene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Naphthalene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Phenanthrene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Pyrene	ND	0.150	μg/L	11/29/2012 7:51:00 PM
Surr: 2-Fluorobiphenyl	54.0	32.2-113	%REC	11/29/2012 7:51:00 PM
Surr: 4-Terphenyl-d14	92.0	53.5-130	%REC	11/29/2012 7:51:00 PM
Surr: Nitrobenzene-d5	49.0	18.5-130	%REC	11/29/2012 7:51:00 PM

Value exceeds Maximum Contaminant Level

Е Value above quantitation range

J Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



CLIENT:

The Mannik & Smith Group, Inc.

Client Sample ID: MW-06

Lab Order:

1211017

Tag Number:

Project:

C3210002-Maingate

Collection Date: 11/28/2012

Lab ID:

1211017-006A

Date Received: 11/28/2012

Matrix: AQUEOUS

Analyses	Result	Limit Qual	Units	Date Analyzed
VOLATILE ORGANIC COMPOUND	S IN WATER	SW8260A	(SW5030A)	Analyst: cc
1,1,1,2-Tetrachloroethane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,1,1-Trichloroethane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,1,2,2-Tetrachloroethane	ND	5.00	µg/L	11/29/2012 1:32:00 PM
1,1,2-Trichloroethane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,1-Dichloroethane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,1-Dichloroethene	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,1-Dichloropropene	ND	5.00	µg/L	11/29/2012 1:32:00 PM
1,2,3-Trichlorobenzene	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,2,3-Trichloropropane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,2,4-Trichlorobenzene	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,2,4-Trimethylbenzene	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,2-Dibromo-3-chloropropane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,2-Dibromoethane	ND	2.00	μg/L	11/29/2012 1:32:00 PM
1,2-Dichlorobenzene	, ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,2-Dichloroethane	ND	5.00	µg/L	11/29/2012 1:32:00 PM
1,2-Dichloropropane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,3,5-Trimethylbenzene	: ND	5.00	µg/L	11/29/2012 1:32:00 PM
1,3-Dichlorobenzene	. ND	5.00	µg/L	11/29/2012 1:32:00 PM
1,3-Dichloropropane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
1,4-Dichlorobenzene	ND	5.00	μg/L	11/29/2012 1:32:00 PM
2,2-Dichloropropane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
2-Butanone	ND	100	μg/L	11/29/2012 1:32:00 PM
2-Chlorotoluene	ND	5.00	μg/L	11/29/2012 1:32:00 PM
2-Hexanone	ND	100	μg/L	11/29/2012 1:32:00 PM
4-Chlorotoluene	ND	5.00	μg/L	11/29/2012 1:32:00 PM
4-Isopropyltoluene	ND	5.00	μg/L	11/29/2012 1:32:00 PM
4-Methyl-2-pentanone	, ND	100	μg/L	11/29/2012 1:32:00 PM
Acetone	ND	100	μg/L	11/29/2012 1:32:00 PM
Benzene	, ND	5.00	μg/L	11/29/2012 1:32:00 PM
Bromobenzene	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Bromochloromethane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Bromodichloromethane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Bromoform	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Bromomethane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Carbon disulfide	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Carbon tetrachloride	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Chlorobenzene	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Chloroethane	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Chloroform	ND	5.00	µg/L	11/29/2012 1:32:00 PM

^{*} Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit



CLIENT:

The Mannik & Smith Group, Inc.

Client Sample ID: MW-06

Lab Order:

1211017

Tag Number:

Project:

C3210002-Maingate

Collection Date: 11/28/2012

Lab ID:

1211017-006A

Date Received: 11/28/2012

Matrix: AQUEOUS

Analyses	R	esult	Limit Qu	ıal Units	Date Analyzed
VOLATILE ORGANIC COMP	OUNDS IN WAT	ER	SW8260	A (SW	5030A) Analyst: cc
Chloromethane		ND	5.00	μg/L	11/29/2012 1:32:00 PM
cis-1,2-Dichloroethene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
cis-1,3-Dichloropropene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Dibromochloromethane	•	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Dibromomethane		ND	5.00	µg/L	11/29/2012 1:32:00 PM
Dichlorodifluoromethane		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Ethylbenzene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Hexachlorobutadiene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Isopropylbenzene	•	ND	5.00	μg/L	11/29/2012 1:32:00 PM
m,p-Xylene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Methyl tert-butyl ether		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Methylene chloride	•	ND	5.00	μg/L	11/29/2012 1:32:00 PM
Naphthalene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
n-Butylbenzene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
n-Propylbenzene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
o-Xylene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
sec-Butylbenzene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Styrene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
tert-Butylbenzene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Tetrachloroethene		ND	5.00	µg/L	11/29/2012 1:32:00 PM
Toluene		73.4	5.00	μg/L	11/29/2012 1:32:00 PM
trans-1,2-Dichloroethene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
trans-1,3-Dichloropropene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Trichloroethene		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Trichlorofluoromethane		ND	5.00	μg/L	11/29/2012 1:32:00 PM
Vinyl acetate	2.0	ND	100	μg/L	11/29/2012 1:32:00 PM
Vinyl chloride	1 2	ND	2.00	μg/L	11/29/2012 1:32:00 PM
Surr: 1,2-Dichloroethane d4		96.7	85.5-109	%REC	11/29/2012 1:32:00 PM
Surr: Bromofluorobenzene		100	82.8-118	%REC	11/29/2012 1:32:00 PM
Surr: Toluene-d8		97.1	87.1-112	%REC	11/29/2012 1:32:00 PM

^{*} Value exceeds Maximum Contaminant Level

E Value above quantitation range

J Analyte detected below quantitation limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit